



# Southern Border—Truck Cargo

## Introduction

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### Background

The cargo population, or sampling universe, for AQI monitoring is now defined as commercial plant perishable agricultural cargo. Random samples can be taken from this population with more intensive (hypergeometric) inspections completed and necessary data recorded about these commodities.

In order to properly monitor cargo, you need to have a good understanding of two key statistical principles:

1. It is important that the sample selected be representative of the commodity. Random selection helps ensure this.
2. Once the sample is selected, it is necessary to inspect the sample thoroughly and according to hypergeometric sampling procedures if applicable.

If you want your port to produce quality risk information, then each person participating must have a clear understanding of the sampling universe, the unit of sampling, and inspection consistency issues.

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## The Sampling Universe

You estimate the number of actions due to pests or smuggling in a cargo entry pathway by taking random samples from the cargo in the pathway. It is key to good statistics to carefully define this universe from which you want to draw your random sample. The following questions need answers in order select the sample correctly and to make statistical inferences for the entire universe.

- ◆ How are commodities transported?
- ◆ How many shipments of these commodities are arriving at a work location?
- ◆ What is the seasonality of the commodity?

For AQIM, the universe is defined by the mode of transport of the cargo such as truck. Initially, PPQ has decided to limit the universe. The following commodities or commodity types will be excluded from the sampling universe:

- ◆ Commodities which are pre-cleared at foreign sites
- ◆ Frozen commodities
- ◆ Commodities which undergo some type of mandatory treatment, other than cold treatment (for example, fumigation, irradiation, hot water treatment) at work locations
- ◆ Oil, salt, iron ore, coal, etc., which have no pest risk.

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## Cargo Strata and Stratifying the Sample

The sampling and inspection processes for AQIM were designed to be compatible with PPQ cargo inspection groupings. The cargo universe is divided into several homogeneous and distinctly separate groups. Each group contains commodities that will be sampled in order to estimate the action and pest approach rates in each group. A port may be sampling one or more of the commodities in a group or across groups. With Southern border cargo, the universe is the Commercial Plant Perishable Agricultural Cargo. This category is defined as any commercial formal or informal entry of fresh fruit, vegetables or other non processed or non refined plant product.

By sampling this category, PPQ is able to get precise estimates of the number of trucks with pests approaching or other needed actions. This risk information helps the work location understand how effectively it manages the pest risk for this category, as well as for the entire cargo universe at the port.

It's very important that each commodity in the category selected be representative of all other units of that category. All shipments of a category should have a chance of being selected as a sample. One way to ensure that the sample is representative is to choose a shipment of the commodity at random (either random time, or random number, etc.). This random selection process eliminates the bias of the officer who is selecting the sample. The officer's experience (bias) might lead to choosing a shipment that is more likely to be harboring a pest. This bias would make the sample not representative of the entire commodity universe. The survey results would be skewed and this kind of bias would hamper the port's ability to make the best decisions based on risk analysis.

### Setting Up a Process

Setting up a process of selecting representative samples for each of the commodities will be one of the biggest challenges in AQIM. Because each port has its own unique set of circumstances in cargo operations, the port must individualize its random sampling process. It will be necessary to document the process and possibly ask for feedback from other southern border ports, regional AQIM coordinators or Port Operations staff who have experience in selecting random samples in the cargo environment. The port may even decide that the Port Risk Management Team determine and review the random sampling process on a regular basis.

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## The Unit of Sampling

For Southern border cargo, the sample unit is the truck box containing the commodity, not including the cab. It is crucial that the sample unit is inspected closely enough to detect any actionable pests and any smuggling of prohibited agriculture commodities. Summary inspection procedures for border cargo begin on [page 10-5](#). The procedures must be followed exactly in order for the monitoring estimates to be valid and useful.

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## Consistency of Data Collection

It is crucial that the monitoring results from the inspection of a random sample unit are recorded accurately and consistently. Because each sample represents many other units, all officers must be as consistent as possible in following the inspection procedures.

Regulated commodities pose a special challenge. If the sample selected is a regulated commodity, it is important to understand the following:

Cargo monitoring estimates the number of trucks approaching the work location with commodity pest infestation levels requiring action by PPQ. AQIM uses risk-based inspection procedures for detecting a 10 percent or more pest infestation rate. This initial threshold is used to estimate the number of containers approaching a work location with a pest threat.



This 10 percent infestation level may change as the data for AQIM is collected and analyzed.

To be 95 percent sure that the officer inspecting the sampled truck will find the pest, when the shipment is infested at a 10 percent infestation or more level, the officer must select, at random, a specific number of boxes in the shipment. Determine this number of boxes by using the hypergeometric table illustrated in **Table 5-1**. Each of these boxes must be inspected at level of intensity to ensure that:

- ◆ No hitchhiker pests are present in the box
- ◆ No internal feeding insects are present in randomly selected fruit in the box.
- ◆ No mismanifested or smuggled items are present.

**TABLE 10-1: Hypergeometric Table For Random Sampling In Commodity Inspection**

| Total Number of Boxes on Truck | Number of Boxes to Select at Random From the Truck and to inspect to Detect Pests |
|--------------------------------|---|
| 1-10                           | 10  |
| 11-12                          | 11  |
| 13                             | 12  |
| 14-15                          | 13  |
| 16-17                          | 14  |
| 18-19                          | 15  |
| 20-22                          | 16  |
| 23-25                          | 17  |
| 26-28                          | 18  |
| 29-32                          | 19  |
| 33-38                          | 20  |
| 39-44                          | 21  |
| 45-53                          | 22  |
| 54-65                          | 23  |
| 66-82                          | 24  |
| 83-108                         | 25  |
| 109-157                        | 26  |
| 158-271                        | 27  |
| 272-885                        | 28  |
| 272-885                        | 28  |
| 886-200,000                    | 29  |

Officers should follow normal inspection procedures of the commodities to determine pests. For example, officers should cut fruit to detect internal feeders if external evidence is present.

### **Southern Border—Truck Cargo Procedures Summary**

Use the summary of procedures for Southern Border—Truck Cargo on [page 10-5](#) as an aid when sampling and inspecting commodities for AQIM. The summary is printed so you can remove, photocopy, and reuse it.

| <b>LAND-BORDER TRUCK CARGO AQIM PROCEURES</b> |  |
|---|--|
| Cargo Population Definition                   | All trucks carrying the commodities from the sample category destined to US. This does not include precleared and frozen commodities. Also it does not include commodities with mandatory treatments at port of entry. Note: Commodities with mandatory cold treatments are included.  |
| Sample Size                                   | Select six (6) trucks per week per port that receives this category of cargo. This excludes BCR (Border Cargo Release) and mandatory treatment cargo). <b>Contact Regional AQIM Risk Mgmt Program Mgr. for specific assistance.**</b>  |
| Sample Selection                              | Port discretion, random time, skip intervals, etc.<br><br>May need to first determine the total number of shipments of a commodity received at a port in one year.<br><br>If commodity is seasonal, then sampling should be planned to occur during the full import season of commodity, if reasonable for the number of samples needed.   |
| Inspection Methodology                        | Each truck requires a physical inspection at port or consignee premise.<br><br>Boxes for inspection must be taken from random locations throughout the truck to detect a 10 percent level of infestation (at 95% confidence). The number of boxes shall be set using <b>Table 5-1</b> . Entire contents of boxes selected and available floor space of the truck shall be inspected for agricultural pests or mismanifested or smuggled items. |
| Other Issues                                  | Inspections shall be conducted during the normal business hours at the port. Costs for OT clearance will be paid by the shipper/broker/consignee, or government.<br><br>Need to advise shippers, importers, and brokers that random sampling and inspection will be part of day-to-day operations. They should understand that there is a probability that their shipment will be intensely inspected.   |
| **Regional AQIM Risk Mgmt. Mgrs:              | Western Region - Judy Pasek: 970-494-2523<br>Eastern Region - Calvin Shuler: 919-716-5591  |

## Pathway Monitoring Maintenance

Port managers and local AQIM coordinators are responsible for ensuring that monitoring activities are being performed and performed properly. To help with reviewing the status of monitoring activities, refer to **Appendix L** Pathway Monitoring Maintenance in the AQIM Handbook. This appendix contains a checklist of questions port managers and local AQIM coordinators should periodically answer to ensure proper monitoring of each designated pathway at their work locations. **See Figure L-1**. The questions review the following topics:

- ◆ Random sampling
- ◆ Proportional sampling

- ◆ Adequate sampling
- ◆ Accurate and complete data
- ◆ Working risk committees
- ◆ Local support

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## Southern Border—Truck Cargo Worksheet

There is one worksheet for recording information gathered from your inspection of Southern Border cargo for the purpose of AQIM. Be sure to record the commodity being inspected properly.

The form is also available as a fillable form; go to:

[http://www.aphis.usda.gov/ppq/manuals/pdf\\_files/AQIM\\_in\\_PDF/Southern\\_Border\\_Cargo.pdf](http://www.aphis.usda.gov/ppq/manuals/pdf_files/AQIM_in_PDF/Southern_Border_Cargo.pdf)



# FY02: SOUTHERN LAND BORDER CARGO: COMMODITY MONITORING DATA

Revised 3/1/2002 (Instructions on Reverse)

PORT: \_\_\_\_\_ BRIDGE / CROSSING: \_\_\_\_\_ Inspected by: \_\_\_\_\_

**A) Commodity:** \_\_\_\_\_ **B) Refrigerated:**  NO  YES **C) Entry/Truck Size:**  Greater than 20 ft.  Less Than 20 ft.

**D) Date:** \_\_\_\_\_ **E) Consignee:** \_\_\_\_\_ **H) Destination:** \_\_\_\_\_

**F) Carrier:** \_\_\_\_\_ (trucking line / company) **G) Origin:** \_\_\_\_\_ (Include Mexican State/Province) **K) Amt of Cargo Inspected (Count):** \_\_\_\_\_

**I) Cargo Description:** \_\_\_\_\_ **J) Total Cargo Amt:** \_\_\_\_\_ / \_\_\_\_\_ (Regulated Cargo Only)  
**L) Inspection Method\*\*:**  HG  OEC  OPC  TGT  Dunnage  Pallet  Crating  Other  
**M) Any Solid Wood Packing (SWP):** (If YES complete 1 - 4) ==>  NO  YES  
 1) Type of SWP: (check one)  Was Bark found on SWP:  NO  YES  
 2) Indicate % of SWP inspected \_\_\_\_\_ %  
 3) Certificate for fumigation or other treatment of SWP presented?  NO  YES  
 4) \_\_\_\_\_

**N) Based on inspection findings, is additional action necessary to reduce agricultural risk?**  NO  YES (IF YES, complete ALL parts of 1,2, 3 & 4 below)  
 \*\*\*\*\*

**1) Check the Intended Use of Cargo:\*\*\*\*>**  Wholesale/Retail  Propagative  Migr/Processing  Personal Consumption  Could Not Determine  
**2) Actionable Pest found?** check one:  NO  YES WHERE WAS PEST FOUND\*\*\*  
 CARGO ITEM PEST ID PEST INTERCEPTION #

If YES, list info on pest(s):> \_\_\_\_\_  EXT  TGT  RR  FR  SWP  
 (Record pest interceptions from SWP here also) \_\_\_\_\_  EXT  TGT  RR  FR  SWP  
 \_\_\_\_\_  EXT  TGT  RR  FR  SWP

**3) Contaminant Found?:**  No  Yes (If YES, list below the info about the contaminant including the item it's associated with, i.e. soil on yarns, manure on truck)

**4) Agriculture items Mismanifested or Smuggled?:**  No  Yes (If YES, list below the info about the mismanifested or smuggled cargo item(s))  
 CONTAMINANT / ITEM AMOUNT (Count/Weight) PROHIBITED? (By Reg or Q#) WHERE WAS IT FOUND\*\*\*  
 \_\_\_\_\_ / \_\_\_\_\_  No |  Yes  EXT  TGT  RR  FR  
 \_\_\_\_\_ / \_\_\_\_\_  No |  Yes  EXT  TGT  RR  FR  
 \_\_\_\_\_ / \_\_\_\_\_  No |  Yes  EXT  TGT  RR  FR

\*\* Inspection HG - Hypergeometric Sample OPC - Observed Partial Contents  
 Method: OEC - Observed Entire Contents TGT - Observed Tailgate Only  
 \* Cargo Descrip. Groups:  
 ANPED: animal prod. edible (meat, etc) FCF: fresh cut flowers, etc PLNT: all prop. plants/parts  
 ANPNE: animal prod. NOT edible FFV: fresh fruit/veg SEED: all seeds/grains  
 BLBIO: blood, serum, biologicals LUMBR: lumber, logs SOIL: soil, dirt, etc.  
 FR - Front half of the container  
 SWP - Solid Wood Packing  
 RR - Rear half of cargo container (excluding tailgate)  
 UNKN: unknown or no descrip.

**DATA FORM INSTRUCTIONS (South Bdr Cargo):**

Revised 03/01/2002

**IMPORTANT:**

1. All data fields (A-N) must be filled in for a completed monitoring record even if no agriculture risk is found. If answer to “Does cargo require action beyond inspection to reduce agricultural risk?” is Yes, then answer all parts of questions 1 through 4. Cargo needs to undergo thorough inspection for pests. Regulated cargo must be sampled using hypergeometric sampling plan. All actionable pest types and quantities found must be recorded. See Pest ID explanation below.

**INSPECTED BY:** Print name or badge number of the person responsible for the inspection of the cargo. This data is for local office use, it is not recorded in the monitoring database.

- A) **COMMODITY:** Record the appropriate cargo commodity type that is being targeted and inspected.
  - B) **REFRIGERATED:** Circle the appropriate response.
  - C) **ENTRY/TRUCK SIZE:** Circle the appropriate truck size that the cargo is being transported on.
  - D) **DATE:** Record the date of the inspection.
  - E) **CONSIGNEE:** Record the consignee of this shipment.
  - F) **CARRIER:** Record the appropriate information (truck line / company) that transported the cargo to the port. Spell names completely.
  - G) **ORIGIN:** Record the country of origin of the cargo. Spell out Mexican state or province.
  - H) **DESTINATION:** Record the State where the cargo is destined using the appropriate 2 letter abbreviation.
  - I) **CARGO DESCRIPTION GROUP:** Record the appropriate general group that the cargo is in. If unknown or no description, use UNKN
  - J) **TOTAL CARGO AMOUNT:** Record the TOTAL cargo count of boxes, cartons, bags or other singular units, also record the total amount of cargo by recording the weight in kilograms.
  - K) **AMOUNT OF CARGO INSPECTED: (FOR REGULATED CARGO ONLY)** Indicate the amount of cargo sampled and inspected by recording the number of boxes, cartons, bags or other singular units that was actually inspected. (Do not record total cargo amount, unless that much was inspected.)
  - L) **INSPECTION METHOD:** Circle the appropriate response to indicate the which inspection method was used. See bottom of form for explanation of codes.
  - M) **ANY SOLID WOOD PACKING (SWP):** Circle the appropriate response. If yes, answer I through 4 about the SWP: 1) **TYPE OF SWP:** Indicate the type of solid wood packing inspected. 2) **PERCENTAGE OF SWP INSPECTED:** Estimate the percentage of solid wood packing inspected. 3) **BARK FOUND ON SWP:** Circle the Appropriate response. 4) **CERTIFICATE OF FUMIGATION OR OTHER TREATMENT:** Indicate if a certificate for fumigation or other treatment of SWP was presented with entry documents.
  - N) **DOES CARGO OR CARGO CARRIER REQUIRE ACTION BEYOND INSPECTION...:** Circle whether cargo or cargo container or cargo carrier requires additional action beyond usual inspection procedures. This includes: pests found, cargo items mismanifested or smuggled, contamination present, cleaning, etc. If yes, then complete all questions in 1 - 4. below starred line.  
\*\*\*\*\*
- SPECIAL NOTE FOR RECORDING DATA ON ANIMAL MEAL:** If an action on animal meal do the following:- Record YES for #3 “Contaminant Found” on data sheet (EVEN if contaminant not found) then list in the “Contaminant/Item” data fields each individual reason for the action (i.e.: flesh found in shipment, OR shipment moist, not dry OR from BSE country, etc.)
- 1) **INTENDED USE OF CARGO:** Record the intended use of the cargo. Circle the appropriate response. If unable to determine, then mark Could Not Determine.
  - 2) **ACTION PEST FOUND:** Record if Actionable pest was found or not. If YES, for each actionable pest found record the **cargo item** (include “container” or “truck” as options if appropriate) that the pest was found on; the full **pest identification**; the **PPQ pest ID #** assigned; and **where infested cargo or pest was found**. See bottom front of form for “where” code explanations.
  - 3) **CONTAMINANT FOUND:** Record if contaminant was found or not. If yes, record each **contaminant** and the item it's associated with (i.e.: manure on truck, soil on yams etc.); and the **amount** of the contaminant in kilograms if practical (accurately estimate if necessary); whether **prohibited** or not; and **where the pest was found**. See bottom front of form for code explanations.
  - 4) **AGRICULTURE ITEM MISMANIFESTED OR SMUGGLED:** Record if mismanifested or smuggled agriculture item(s) were found or not. If YES, record: each **item**; the amount - both the weight in kilograms (accurately estimate if necessary) and the count; whether **prohibited** or not; and **where the item was found**. See bottom front of form.

# Southern Border—Truck Cargo

## *Data Collection and Maintenance*

### Introduction

Traditionally, PPQ based our work on the quantity of quarantine material intercepted. We inspected cargo, found pests, and tallied them to justify good job performance. AQIM emphasizes work efforts based on the potential threat posed by foreign pests and quarantine material.

Regular baseline AQIM will be incorporated as a part of PPQ's ongoing operations at work locations. Randomly selected samples belonging to four different strata are required at each Southern border crossing. Inspection time will vary depending on the strata and on the commodity.

Every PPQ work location needs to be involved in the AQIM process. Each work location will have a group of managers, supervisors, and officers who manage results- monitoring and the subsequent risk management functions at the work location. All PPQ personnel are involved and supportive of the process.

The expected results are that PPQ will have results-monitoring systems in place that will meet the needs of management and the requirements of the GPRA.

### Epi Info User Guide for Data EntrySouthern Border—Truck Cargo



When first using Epi Info thoroughly read the user guide to become familiar with entering data into each of the data fields.

#### General Instructions

At completion of **each data entry** session make a back up of data records file, **02CGMBR.REC**, file to a computer disk. See [Appendix G](#) for procedures for backing up monitoring data.

1. Press [**CAPS LOCK**] (to ensure typing capital letters).
2. Be sure to start at C:\prompt. Epi Info is a DOS program.

3. Change to the Epi Info directory. Type: **CD EPI6** then Press **[ENTER]**.
4. Start Epi Info program. Type: **EPI6** then Press **[ENTER]**.
5. Wait several seconds, the Main Menu will appear with the word Program highlighted.
6. Press **[P]** (to list Program Menu).
7. Press **[N]** (to choose ENTER from Program Menu).
8. Cursor should be in the space below the phrase "Data file (.REC)".
9. Type in the space the cursor is in: **02CGMBR**
10. Press **[ENTER]** **3 times** (to load files for data entry).
11. Data entry screen for Cargo Strata should appear.

### Help Statements

Read the following help statements before entering data:

- ◆ Each data entry screen represents only one monitoring inspection. After correct data entry is made and saved, this becomes a record for that one inspection.
- ◆ Some data fields will automatically advance the cursor after entering data. Some require pressing **[ENTER]** to advance the cursor after entering data.
- ◆ Some data fields will be skipped depending on the strata.
- ◆ Data entry messages and valid data values for each data field appear at the bottom of the screen or by pressing **[F9]**.
- ◆ If an error is made and the cursor has left the data field, use the Up (↑) and Down (↓) arrow keys to move from field to field in order to make changes or corrections to data fields already entered.

### Enter Data

Read the following as you enter data to become familiar with each of the fields.

**Port**—You should not have to enter data in this field. This field is automatically filled in, if not contact the local AQIM Coordinator.

**Crossing**—You should not have to enter data in this field beyond the first record. This field is automatically filled in, if not contact the local AQIM Coordinator.

**BDRRECNUM**—This field is automatically assigned by the computer.

**A) Commodity**—Press [F9] to select a commodity. If you cannot find the desired commodity, select other. In the other field, type in the name of the desired commodity.

**B) Cargo Refrig**—Enter response circled on the data form.

**C) Entry Size**—Enter truck size circled on the data form.

**D) Date**—Must enter data. Enter date of inspection from data form in MM/DD/YYYY format.

**E) Consignee**—Record the consignee of this shipment.

**F) Carrier**—Must enter data: Enter truck number.

**G) Cargo Origin**—Record origin of the cargo. Must enter data. Press: [F9] to open window of valid origin names. Type the first and second letters of country name in order to scroll down the list faster. Use Up (↑) and Down (↓) arrows keys to highlight correct choice. Press [ENTER] to select this origin.

**OrigCode**—You should not have to enter data. This code is entered automatically.

**H) Destination**—Must enter data. Press: [F9] to open window of valid destination names. Type the first letter of destination name in order to scroll down the list faster. Use Up (↑) and Down (↓) arrows keys to highlight correct choice. Press [ENTER] to select this destination.

**I) Description Group**—Enter description group. Press [F9] to select the description group

**J) Cargo Count**—Record the amount of cargo units (boxes, cartons, bags, etc.).

**Cargo Weight (KG)**—Record the amount of cargo by recording the weight in kilograms.

**K) Amt. Insp. (Num)**—FOR REGULATED CARGO ONLY!! This data field does not appear on all cargo strata forms. Record the amount of cargo sampled and inspected by recording the number of singular units inspected (boxes, bags, etc.)

**L) Inspection Method**—Enter the inspection method circled on the data form (I). Valid values for the methods are listed at the bottom of the screen.

**M) Solid Wood Packing (SWP)**—Enter either N(no) or Y(yes).

- ◆ If Y: Cursor will proceed to next data field (SWP Type)
- ◆ If N: Cursor will jump to “Require Action Beyond Inspection to Reduce Risk?”

**SWP Type**—Press: **[F9]** to open window of valid SWP types. Use Up (↑) and Down (↓) arrow keys to highlight the correct type. Press **[ENTER]** to select it.

**Amount of SWP Inspected %**—Enter percentage of SWP inspected.

**Bark on SWP**—Enter either N(no) or Y(yes) response from the data form.

**SWP Fumigation Certif. or Other Treatment Presented**—Enter either N(no) or Y(yes) response from the data form.

**Required Action Beyond Inspection to Reduce Risk**—Must enter data. Enter either **Y**(yes) or **N**(no):

- ◆ If **Y**: cursor will proceed to next data field.
- ◆ If **N**: then cursor will jump to the bottom of the screen asking the question: "Write data to disk (Y/N/<Esc>)?". If data entry is correct and complete, answer Y to this question and the data screen will renew for the next record entry.

**1. Intended Use of Cargo**—Record the intended use of the cargo.

**2. Action Pest**—Record if actionable pest(s) were found or not. Enter either **Y**(yes) or **N**(no):

- ◆ If **Y**: cursor will proceed to the next data field.
- ◆ If **N**: then cursor will jump to “3. Contaminant Found?”

**Cargo Item**—Record the cargo item that the pest was found on, include cargo conveyance as an option if appropriate. When recording:

- ◆ Use the singular form (except for leaves)
- ◆ Use precise descriptors: fresh, dried, frozen, etc.
- ◆ Describe using common English names if possible
- ◆ DO NOT use the general descriptors **cucurbit, bean, or rubus sp.** Break these down to more detailed items, if possible.

**Pest ID**—System will automatically enter NONE (for no pest found). Record the identified pest name (genus/species).

**Pest Intercep. Num.**—System will automatically enter NONE (for no pest found). Enter the pest interception number assigned to the pest. This number maybe assigned later or by another office. If pest interception number assignment is delayed, then enter the letters: TBA (To Be Assigned.) Remember to update this data field with the pest interception number.

**Where found:WFA**—Record where the pest was found in relationship to the container/conveyance that the cargo arrived in. See the bottom of the data form for “where found” code explanations.

**WFA**—A second field for “where pest was found” if pest is found in more than one of the locations listed.

**Cont (Continue)**—

- ◆ Press [**Y**] if additional pests and cargo items ARE to be entered, Press [**ENTER**] to leave field and continue on.
- ◆ Type: [**N**] if no other items are to be entered in this record. Cursor will jump to “3. Contaminant Found?”.

**3. Contaminant Found?**—Must enter N(no) or Y(yes) to indicate if a contaminant was present with the cargo. **If yes, be sure to enter the contaminant information after answering next data field.**

**4. Agr. Item Mismanifested/Smuggled?**—Must enter **N**(no) or **Y**(yes) to indicate if any mismanifested or smuggled items were found with the cargo.

- ◆ If **Y**: then cursor will proceed to next data field.
- ◆ If **N**: then:
  - ❖ if Yes to previous Contaminant question, cursor will move to the next data field,
  - ❖ if No to previous Contaminant question, cursor will jump to the bottom of the screen asking the question: "Write data to disk (Y/N/<Esc>)" If data entry is correct and complete, answer Y to this question and the data screen will renew for the next record entry.

**Contaminant/Item**—

- ◆ If Contaminant: record the contaminant name and the cargo item (cargo conveyance) it’s associated with. (Soil on yams, manure on truck, etc.)
- ◆ If Mismanifest/Smuggled: record the items found.

**Wght, KG**—Record the amount of listed contaminant/item in kilograms. Record best “accurate estimate,” if necessary.

**Cargo Count**—Record the amount in singular units (boxes, cartons, bags, etc.), if appropriate.

**Prohibited**—Record if contaminant/item is prohibited due to regulations or quarantine.

**Where found:WFA**—Record where the contaminant/item was found in relationship to the container/conveyance that the cargo arrived in. See the bottom of the data form for “where found” code explanations.

**WFA**—A second recording for “where contaminant/item was found” if found in more than one of the locations listed.

**MO**—Do not enter data in this field. This field is filled in automatically with the numeric value of the month. This field is used for analysis purposes.

**Cont (Continue)**—

- ◆ Press [**Y**] if additional pests and cargo items ARE to be entered, Press [**ENTER**] to leave field and continue on.
- ◆ Press [**N**] if no other items are to be entered in this record. Cursor will jump to "Write data to disk (Y/N/<Esc>?)"

**Write data to disk (Y/N/<Esc>?)**—

- ◆ Type: **Y** if data entry is complete for this record. Record will be saved to the record's file.
- ◆ Press [**N**] if you wish to make changes or corrections to the record field. After making changes or corrections remember to return the cursor to the last field of form (Going To Work On Farm.), and Press [**ENTER**] to return to the prompt "Write data to disk (Y/N/<Esc>?)"

**When finished with data entry**—

1. Press [**F10**] to return to Main Epi Info menu.
2. Press [**F10**] again to leave Epi Info and return to regular computer menu.

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## Data Accuracy Checks and Data Corrections

[To Be Developed]

# Southern Border—Truck Cargo

## *Data Analysis*

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### Survey Results and How To Use Them

AQIM activities have been put into place to develop baseline data to help answer two basic questions:

1. What is the threat of agricultural pests approaching work locations?
2. How effective is the AQI program at managing this threat?

There are varying rates at which prohibited agricultural materials and pests approach the work locations. These prohibited agricultural materials are what can have agricultural pests.

Further analysis of the monitoring data is needed to determine the risk associated with the prohibited items approaching the work location. The origin and destination of the prohibited items is important to determine risk levels. Also, whether or not the prohibited item carries an actual agricultural pest is crucial in analyzing risk.

Analyses of the monitoring data need to occur at several levels of PPQ. At the work locations, PPQ personnel need to study what the data means and answer the first question for their specific work location. Analysis tools are available to help with these analyses, which are explained in the next subsection. At the same time, PPQ holds risk analysis workshops around the country to introduce risk analysis concepts. At some work locations, teams of PPQ officers and managers form Risk Management Teams to look at monitoring data and other data, which are normally collected at the work location.

At other locations, analyses of monitoring data occur to establish the rates at which quarantined items and agricultural pests are approaching the borders of States, areas of the country, and the United States.

Once baseline rates are well established, PPQ can use the monitoring data as a baseline to answer the second basic question: How effective is the AQI program at managing the risk of introduction of agricultural pests and diseases? Again, each work location must conduct this type of analysis. AQIM provides a framework which work location can use to carry out the analysis.

## Analysis Tools

The tool available for analyzing AQI monitoring data is the ANALYSIS program in Epi Info. Using the ANALYSIS program in Epi Info you can look at data entered specifically for your work location. While in Epi Info ANALYSIS, you can select a data analysis program file (\*.PGM) that automatically runs a series of Epi Info commands. The program will produce various listings, tables, analysis commands, and explanatory text from data files for a designated pathway. Follow the guidelines on how to load and run data analysis program files beginning on [page 10-20](#).

Epi Info ANALYSIS saves the analysis output to a file for viewing and/or printing. The file contains basic information that answer some of the questions to guide data analysis that follow. For questions not answered by running an automatic program, you will need to key in and run various analysis commands. Follow the Epi Info User Guide for Data Analysis-Southern Border-Truck Cargo beginning on [page 10-24](#) to help you with the analysis commands.

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## Questions To Guide Data Analysis

1. How many trucks were selected for sampling during the survey period?

How many actions were required on the trucks sampled?

How many actions by strata category sampled were there?  
(Previous data has multiple strata.)

What is the action approach rate of trucks that require action  
(number of trucks requiring action divided by total trucks in the sample)?

2. How many pest interceptions (actionable pests) were made from survey samples?

Pest Approach Rate: What is the rate of pest interceptions in relation to the total sampled number of trucks (number of trucks with actionable pests divided by total trucks in the sample)?

3. Compare the rate of actions required for each month of the survey.

### DISCUSSION:

Are there easily identified trends when the rate of cargo actions transiting the work location are higher?

Are there seasonal trends?

Do higher rates correlate with national or religious holidays, certain types of trucks, cargo, or importers?

4. Generate a listing and frequency of shipments requiring action. Which commodities present the greater risk?

Which commodities most likely to require action? Where were the agricultural pests found? What is the rate of trucks with smuggled or mismanifested items?

**DISCUSSION:**

How effective is the current tailgate inspection process in detecting pests and/or smuggled cargo?

5. What types of shipments (refrigerated, mixed vegetables, dry containers, empties, cut flowers, express carriers, etc.) require higher rates of action?

**DISCUSSION:**

What selectivity factors are currently used to identify shipments likely to require action?

What additional selectivity factors would be used to identify shipments likely to require action?

Do the survey results indicate additional factors that help identify shipments most likely to require action?

6. Using monitoring data, apply the survey results to the cargo universe at the work location to estimate the number of actions required and interceptions likely to transit the work location during the same time the survey period took place.

How many trucks arrived at the work location during the survey period? Using the action approach rate for trucks requiring action, calculate an estimate of the number of trucks transiting the work location that are likely to require action.

Using WADS data, how does the estimated number of actions required compare with the reported number of actions taken?

How many additional actions may have been required during the survey period?

How does the estimated number of actionable pest interceptions compare with the reported number of actionable pests on WADS for truck cargo?

**DISCUSSION:**

What percentage of resources are dedicated to staffing AQI activities for southern border truck cargo at the work location?

What is the relative risk of this pathway compared with other pathways in the work location?

Should resources be reallocated among all the pathways in the work location to better address the relative risk of the pathways?

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## How to Load and Run Data Analysis Program Files

Data analysis program files are meant to provide only listings, tables, and explanatory text about the monitoring data gathered at work locations. The program files are not intended to be used as final analysis tools. The outputs from these program files should raise further questions and discussion by local personnel and risk management committees.



Each year the AQIM National Team reviews, discusses, and decides about suggested improvements (additions, removals, changes) to the baseline data fields based on analysis and operational needs. A summary of the changes made during previous fiscal years to data fields for the Southern Border–Truck Cargo pathway begin on [page 10-29](#) under Southern Border–Truck Cargo Epi Data Translation. Use the summary to identify data field changes that may impact the results of an analysis report run for a particular year.

Data analysis files automatically run a series of Epi Info analysis commands. Use the following guidelines to load and run data analysis program files.

1. Determine which data analysis program file (\*.PGM) file you will load and run in Epi Info.

In Epi Info, ANALYSIS, there is a data analysis program file for each fiscal year of data gathered. Look at the table below to identify the file to load and run depending on which fiscal year's data you are analyzing.

| If you want to analyze data for: | Then load and run the following Epi Info ANALYSIS data analysis program file (*.PGM) |
|----------------------------------|--|
| FY 1998                          | CGMLND98.PGM   |
| FY 1999                          | CGMLND99.PGM   |
| FY 2000                          | CGMBR2K.PGM  |
| FY 2001                          | CGMBR01.PGM  |
| FY 2002                          | CGMBR02.PGM  |

2. Get ready to run a data analysis program file.
  - A. Press: **CAPS LOCK** (to ensure typing capital letters).
  - B. Be sure to start at C:\prompt. Epi Info is a DOS program.
  - C. Change to the Epi Info directory. Type: **CD EPI6**, then Press **[ENTER]**.
  - D. Start Epi Info program. Type: **EPI6**, then Press **[ENTER]**.
  - E. Wait several seconds, the Main Menu will appear with the word Program highlighted.
  - F. Press **[P]** (to list Program menu).
  - G. Press **[A]** (to choose ANALYSIS from Program menu).
  - H.

| If you are running:                                   | Then:  |
|---|--|
| A data program analysis file using Epi Info, ANALYSIS | CONTINUE to <b>Step 3</b> .  |
| Further analysis commands using Epi Info              | GO to the <b>Epi Info User Guide for Data Analysis</b> <b>Southern Border—Truck Cargo</b> beginning on <b>page 10-24</b> |

3. Run the selected data analysis program file (\*.PGM) from Step 1.

You should be at the Epi Info ANALYSIS screen. If not, review Step 2.



To leave the analysis mode at any time, Press **F10**

- A. At the EPI6 command prompt, Type: RUN FILENAME, where FILENAME is the \*.PGM file you selected in Step 1. For example if you are analyzing data gathered in Fiscal Year 2000, then you would enter at the command prompt: **RUN CGMBR2K.PGM.**

Then, Press **[ENTER]**.

| If you:  | Then:  |
|--|--|
| See the following prompt at the bottom of the screen: "Press enter key to pick the records file you want to analyze" | 1. Press <b>[ENTER]</b> . A window appears with a listing of *.REC files.<br>2. GO to <b>Step B.</b> |
| Do not see the prompt stated in the cell above   | DO the following 3 steps   |

- i. Type: RUN, then Press **[ENTER]**. A window appears with a list of \*.PGM files.
- ii. Using the Up (↑) and Down (↓) arrow keys, search and highlight the program file name you want to run (for example, CGMBR2K.PGM), then

Press **[ENTER]**.



If you cannot locate the file name you are looking for, then contact your local AQIM coordinator. If they are not available, then contact the National AQIM Coordinator.

- iii. When the following prompt appears at the bottom of the screen: "Press enter key to pick the records file you want to analyze"

Press **[ENTER]**.

Go to **Step B.**

- B. Using the Up (↑) and Down (↓) arrow keys, highlight the records file for the desired fiscal year.



The program file (\*.PGM) must match the records file (\*.REC). When you are sure,

Press **[ENTER]**.

- C. You are prompted for a file name where the program will save the output. (An example is given on the screen using the three-letter port code and the date.)

Type **FILENAME**, where FILENAME is the file name you have created to save the program output. Then, Press [**ENTER**].

- D. You are prompted to enter the date that is **one day before** the date you want the program analysis to start. (The analysis program analyzes records between two given dates, but does not include the given dates. Therefore, you must enter the dates of the days just before and after the dates you want included in the analysis.

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EXAMPLE: )For example, to analyze Fiscal Year 2000 data, you would enter 09/30/1999 (one day before the beginning of Fiscal Year 2000).

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Type the start date following the format (MM/DD/YYYY), where it is one day before the date you want the program analysis to start, then Press [**ENTER**].

- E. You are prompted to enter the date that is one day after the date you want the program analysis to end.

Type the end date following the format (MM/DD/YYYY), where it is **one day after** the date you want the program analysis to end, the Press [**ENTER**].

- 4. The program will begin analyzing. You will see the program's output scroll quickly on the screen. It is being saved to the file name you specified in Step 3.C.
- 5. The program is finished when the cursor returns to the EPI6> prompt. At this time, you may want to do any of the following:

| If you want to:   | Then:   |
|---|---|
| View or print the program output file   | 1. Press [F10] to exit Epi Info.<br>2. Use a word processing program such as WordPro to view and/or print the file. <b>NOTE:</b> The file usually is in the C:\EPI6 directory saved in an ASCII (DOS) text file format. |
| Run a data analysis program file for another fiscal year's data                         | Return to <b>Step 1.</b> at the beginning of this subsection to decide which program file to run  |
| Continue with further analysis commands using the Epi Info User Guide for Data Analysis | Go to the <b>Epi Info User Guide for Data Analysis Southern Border—Truck Cargo</b> beginning on <b>page 10-24</b>   |
| Exit Epi Info, ANALYSIS   | Press [ <b>F10</b> ].   |
| Exit Epi Info   | Press [ <b>F10</b> ] twice.   |

## Epi Info User Guide for Data Analysis Southern Border—Truck Cargo

When first running analysis commands in Epi Info, thoroughly read through the user guide to become familiar with basic analysis procedures used with the data about AQI monitoring for a specific work location.

### Get Ready

1. You should be at the Epi Info, ANALYSIS screen. If not, refer to **Step 2**, getting ready to run a data analysis program file, under How to Load and Run Data Analysis Program Files on [page 10-20](#).
2. Press [**F2**] (to list Commands menu).
3. Use the arrow keys to move the cursor to the READ command.
4. Press [**ENTER**] **twice** (to get a list of .REC files that can be analyzed).
5. Use the arrow keys to move cursor to highlight the records **02CGMBR.REC**.
6. Press [**ENTER**] (to bring the \*.REC file you have chosen into the Analysis screen).
7. Press [**F4**] (to browse the data records in the file).
8. Use the arrow keys to look over the data to make sure it has been entered properly during the past month. (In subsequent months, you will want to browse through the entire file to see that all months of data have been properly entered, repeated fields such as workunit are consistently the same.)

To view only one individual record press **F4** again to see the entire record as it was originally entered. If it is necessary to make changes to the record, **note the Epi Info record number in the lower right corner of the screen**.

If you want to edit or change this record, go to **Edit Records:** beginning on [page 10-27](#).

### Analyze Records

9. Press [**F10**] (to return to the main Analysis screen).
10. Press [**F2**] (to see a list of analysis commands).
11. Use the arrow keys to move the cursor to **FREQ** (frequency) and Press [**ENTER**].

12. Press **[F3]** (to see a list of data variables). To better understand the variables listed, refer to [page 10-29](#) for a list of data variable translations for the current FY and a summary of data field changes made during previous FYs.
13. Use arrow keys to highlight the data variable you wish to know the frequency of.

Press **[ENTER]** twice and you will get a frequency table.

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EXAMPLE: For example: if you want to know which carriers had shipments sampled, move the cursor to CARRIER and press enter twice. You will get a table showing the number of records entered into the database for each carrier sampled in the survey.

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14. Explore the database by doing **FREQ** commands for as many data variables as is logical. By doing this you will begin to understand the survey data and see some patterns in the data.

For each variable, use the **[F2]** and **[F3]** keys to choose the **FREQ** command and variable of interest, or you can type the word **FREQ** and the data variable names directly at the Analysis prompt.

15. To explore graphic commands: (The **PIE** command is one of several graphics commands which allow you to analyze the variables with graphs. This may make it easier to see patterns in the data and to understand the survey results.)

Press **[F2]** and choose the **PIE** command with the cursor. Press **[ENTER]**.

Press **[F3]** and select a data variable of interest from your data exploration in the **FREQ** analysis ([Step 9.-14.](#)).

Press **[ENTER]** twice and you will see a pie chart on your screen which might help you understand a pattern in the data.

For example, if you have chosen the **CARRIER** variable for a pie graph, then you may see that a larger percentage of samples were taken from one carrier, which may cause you to question the sampling procedures.

See [Appendix H](#) for procedures for printing graphics while in Epi Info.

To leave the graph screen and return to the main screen, Press: **<ESC>**.

## 16. Further FREQ exploring.

To see the number and kind items carrying pests from random shipment inspections, Press [**F2**] to list commands.

Highlight FREQ and Press [**ENTER**]. (You will next “tag” more than one data variable to move these variable to the analysis command line.)

Press [**F3**] to list data variables, highlight **CARGOITEM** and “tag” this variable by Pressing: **Shift and the (+)**. A small arrow will appear next to **CARGOITEM**.

Next, highlight the variable **CARGOITE01**, and “tag” it. Do the same for **CARGOITE02**.

The analysis command line should appear:

```
EPI6> FREQ CARGOITEM CARGOITE01 CARGOITE02
```

Press [**ENTER**]. The output screen should display counts of items for each of the cargo item data lines for all records. Adding up the counts of the items will provide a category breakdown of the agriculture items carrying actionable pests during random sample inspections.

## 17. Further exploration. Two other commands (F2 TABLES, F2 SELECT) are very useful to explore the survey data and to begin answering questions you may have after using the FREQ and PIE commands.

For example, if you want to know if truck cargo strata 1 has samples taken from shipments coming from Great Britain, then do the following:

Press [**F2**]. Move cursor to SELECT. Press [**ENTER**].

Press [**F3**]. Move cursor to SWP.

Press [**ENTER**]. Type = “Y”.

The command line will then look like this: EPI6>SELECT  
SWP="Y"

Press [**ENTER**].

When you run new analysis commands, the analysis will only look at a subset of records where the cargo had solid wood packing (SWP). If you want to get back to the entire set of records, Press **[F2]**. Move cursor to SELECT. Press **[ENTER]**.

18. To continue working with the subset of records established in **Step 17.**:

Press **[F2]**. Move cursor to **FREQ**. Press **[ENTER]**.

Press **[F3]**. Choose **ORIGIN**. Press **[ENTER]** **twice**. You will get a table that lists the frequency of sampled records from each country of origin.

Do a **PIE ORIGIN** analysis command to get a graphic picture of which countries the random shipments are coming from.

19. Press the Up ( $\uparrow$ ) arrow key to move the command line cursor to the **FREQ ORIGIN** command.

Type: **\C**. Press **[ENTER]**. The new table will give a statistical analysis with 95 percent confidence intervals.

20. Type on the command line: **TABLES ORIGIN ACTIONPEST**. (Or use the **[F2]** and **[F3]** keys to select the **TABLES** command and the two variables.)

Press **[ENTER]**. You will get a table which shows the frequency that actionable pests are being found in the samples from various origins.

This analysis can be used to further understand the cargo risk.

### **Edit Records:**

- E1.** Press **[F10]** **twice** (to get back to the main EPI6 program menu).
- E2.** Press **[P]** (to list Program menu).
- E3.** Press **[N]** (to get to the Edit menu).
- E4.** Press: **[F9]** key (to list .REC files).
- E5.** Use arrow keys to highlight appropriate .REC file

Press **[ENTER]** **four times** to get to the data entry screen for this file.

- E6.** Press **[CONTROL]** and **F** at the same time (to find the record which needs editing).
- E7.** Press **[F2]** and then **type the number** of the record you need to edit.

- E8.** Press [**ENTER**] (to get to the record you need to edit).
- E9.** Make corrections to the record, using the Up (↑) and Down (↓) arrow keys to move from field to field.

When finished editing, Press [**F10**], and answer YES to the question (at the bottom of the screen) that asks to write the edited record to the data file.

Return to the beginning of the user guide on [page 10-24](#).

## Southern Border Truck Cargo Epi Data Translation

### Core Data Fields for the Current Fiscal Year

| <b>VARIABLE NAME</b> | <b>SCREEN NAME</b>                                 |
|----------------------|--|
| CARGOTYPE            | Cargo Type:  |
| PORT                 | Port:  |
| CROSSING             | Crossing:  |
| BDRRECNUM            | BDRRECNUM:   |
| COMMODITY OTHER      | A) Commodity:                                      |
| OTHER                | Other  |
| CARGOTYPE            | Cargo Type:  |
| CARGOREFRI           | B) Cargo Refrig:                                   |
| ENTRYSIZE            | C) Entry Size:                                     |
| DATE                 | D) Date:   |
| CONSIGNEE            | E) Consignee:                                      |
| CARRIER              | F) Carrier:  |
| ORIGIN               | G) Cargo Origin:                                   |
| ORGNCODE             | Orgncode:  |
| DESTINATIO           | Destination:                                       |
| DESCGROUP            | Description Group:                                 |
| CARGOCOUNT           | J) Cargo Count:                                    |
| CARGOWEIGH           | Cargo Weight(KG):                                  |
| AMTINSP              | K) Amt. Insp: (Amount of cargo that was inspected) |
| INSPMETH             | L) Inspection Method:                              |
| SWP                  | M) Solid Wood Packing (SWP):                       |
| SWPTYPE              | SWP Type:  |
| SWPINSP              | Amount of SWP Inspected %:                         |
| BARKONSWP            | Bark on SWP:                                       |
| SWPFUMCERT           | SWP Fumigation cert. Of Other Treatment Presented: |
| REQACTION            | Require Action Beyond Inspection to Reduce Risk?:  |
| USECARGO             | 1. Intended Use of Cargo:                          |
| ACTIONPEST           | 2. Action Pest: (Actionable Pest Found)            |

#### **First Pest Information**

|           |  |
|-----------|--|
| CARGOITEM | Cargo Item:  |
| PESTID    | PestID:  |
| PESTNUM   | Pest Intercep. Num:  |
| WFA       | Where Found:WFA:   |
| WFA01     | WFA: (Second recording for more than one Where Found location) |
| CONT      | Cont: (Continue to next Second Pest Information)               |

| VARIABLE NAME  | SCREEN NAME  |
|--|--|
| <b>Second Pest Information</b>                                   |  |
| CARGOITE01   | Cargo Item:  |
| PESTID01   | PestID:  |
| PESTNUM01  | Pest Intercep. Num:  |
| WFA02  | Where Found:WFA:   |
| WFA03  | WFA: (Second recording for more than one Where Found location) |
| CONT01   | Cont: (Continue to next Third Pest Information)                |
| <br>Third Pest Information                                       |  |
| CARGOITE02   | Cargo Item:  |
| PESTID02   | PestID:  |
| PESTNUM02  | Pest Intercep. Num:  |
| WFA04 Where Found:WFA:   |  |
| WFA05  | WFA: (Second recording for more than one Where Found location) |
| CONTMFOUND   | 3. Contaminant Found?:   |
| MISMANSMUG   | 4. Agr. Item Mismanifested/Smuggled?:                          |
| <br><b>First Contaminant/Mismanifest or Smuggled Information</b> |  |
| CONTMITEM  | Contaminant/Item:  |
| CNT  | Cnt: (Cargo Amount, count of boxes, cartons, units...etc.)     |
| WGHT   | Wght, KG:  |
| PROHIBITED   | Prohibited: (Prohibited by Regs or Quarantine #)               |
| WFA06  | Where Found: WFA:  |
| WFA07  | WFA: (Second recording for more than one Where Found location) |
| CONT02   | Cont: (Continue to next Item Information)                      |

**VARIABLE NAME**

**SCREEN NAME**

**Second Contaminant/Mismanifest or Smuggled Information**

|            |  |
|------------|--|
| CONTMITE01 | Contaminant/Item:  |
| CNT01      | Cnt: (Cargo Amount, count of boxes, cartons, units...etc.)     |
| WGHT       | Wght,KG:   |
| PROHIBIT01 | Prohibited: (Prohibited by Regs or Quarantine #)               |
| WFA08      | Where Found: WFA:  |
| WFA09      | WFA: (Second recording for more than one Where Found location) |
| MO         | MO: (month)  |

## Summary of Data Field Changes Made During Previous Fiscal Years

| For Fiscal Year: | The following additions, changes, and removals were made to the data fields:   |
|------------------|--|
| 2001             | <p><b>Additions:</b></p> <p>BDRRECNUM=BDRRECNUM<br/>                     MA01=Manifested As<br/>                     MA02=Manifested As<br/>                     DESCGROUP=Description Group<br/>                     INSPECMETH=Inspection Method<br/>                     SWP=Solid Wood Packing (SWP)<br/>                     SWPTYPE=SWP Type<br/>                     SWPINSP=Amount of SWP Inspected %<br/>                     BARKONSWP=Bark on SWP<br/>                     SWPFUMCERT=SWP Fumigation Certificate or Other Treatment Presented</p> <p><b>Changes:</b></p> <p>MA used to be MANIFESAS<br/>                     The order of data fields were reversed for cargo weight and count:<br/>                     CARGOCOUNT used to be CARGOWEIGHT<br/>                     CARGOWEIGHT used to be CARGOCOUNT<br/>                     CNT used to be WGHT<br/>                     WGHT used to be CNT<br/>                     CNT01 used to be WGHT01<br/>                     WGHT01 used to be CNT01</p> <p><b>Removals:</b></p> <p>TIME=Time<br/>                     IDENTNO=Ident Cntr No<br/>                     REFERREDTO=Referred To</p> |
| 1999             | <p><b>Additions:</b></p> <p>MO=MO (month)</p>  |
| 2002             | <p>Additions</p> <p>COMMODITY= Commodity<br/>                     OTHER= Other Commodity<br/>                     ORGNCODE= Origin code<br/>                     DESCGROUP= Description group</p> <p>Removals:</p> <p>STRATA<br/>                     MA-MA02</p>  |



